

Amendments to the Claims:

The following listing of claims replaces all prior versions and listings of claims, in the application.

Listing of Claims

1. (Previously Presented) An optical fiber enclosure, comprising:
  - a housing having a front compartment, a rear compartment and a bulkhead having a plurality of openings provided thereon, the housing further comprising a front access and a rear access and having at least one fiber radius guide associated with at least one of the front access and the rear access;
  - a plurality of optical adapters mounted to the bulkhead with a subset of the plurality of adapters associated with at least one removable fiber cassette, the fiber cassette installable in one of the plurality of openings in the bulkhead;
  - at least one optical coupler connector assembly coupled to at least one of the plurality of adapters;
  - a front management plate moveably attached to the housing for organizing a first plurality of optical cables; and
  - a rear management plate for organizing a second plurality of optical cables.
2. (Original) The optical fiber enclosure of Claim 1 wherein the optical coupler connector assembly includes an optical coupler adjacent to a ferrule in the optical connector.
3. (Original) The optical fiber enclosure of Claim 1 wherein the optical coupler connector assembly further comprises at least two output ports.
4. (Original) The optical fiber enclosure of Claim 1 further comprising the optical coupler connector assembly located in each port in the enclosure.

5. (Original) The optical fiber enclosure of Claim 1 wherein the bend radius of the optical coupler connector assembly does not exceed approximately 1.5 inches.
6. (Previously Presented) An optical monitoring device comprising:
  - a removable fiber cassette having a plurality of adapters associated therewith;
  - an optical connector associated with the fiber cassette and having at least one output port; and
  - an optical coupler integral with the optical connector.
7. (Original) The optical monitoring device of Claim 6 wherein the optical coupler is integrated adjacent to a ferrule in the optical connector.
8. (Previously Presented) The optical monitoring device of Claim 6 further comprising a bend radius such that the device when coupled to an adapter in a patch panel requires no additional frame space.
9. (Original) The optical monitoring device of Claim 8 wherein the bend radius does not exceed approximately 1.5 inches.
10. (Previously Presented) An optical network system comprising:
  - a patch panel having a housing, the housing having a front compartment, a rear compartment and a bulkhead, the bulkhead having a plurality of adapters associated with at least one removable fiber cassette; and
  - at least one optical coupler-connector assembly coupled to at least one of the plurality of adapters.
11. (Original) The optical network of Claim 10 further comprising a gigabit Ethernet.
12. (Original) The optical network system of Claim 10 wherein the optical coupler-connector assembly includes an optical coupler adjacent to a ferrule in the optical connector.

13. (Original) The optical network system of Claim 11 wherein the optical coupler connector assembly further comprises at least two output ports.
14. (Currently Amended) An optical tap, comprising:
  - an optical connector having at least one output port;
  - an optical coupler integral with the optical connector;
  - a first optical fiber communicatively coupled to the optical coupler; and
  - a second optical fiber adjacent to and optically coupled with the first optical fiber, the optical coupling taking place without the use of refractive optical elements.
15. (Original) The optical tap of Claim 14 wherein the optical coupler is integrated adjacent to a ferrule in the optical connector.
16. (Previously Presented) The optical tap of Claim 14 further comprising:
  - a patch panel having an adapter associated therewith, the patch panel further occupying a frame space; and
  - a bend radius associated with the optical tap, the bend radius remaining within the frame space when the optical tap is coupled to the adapter.
17. (Original) The optical tap of Claim 16 wherein the bend radius does not exceed approximately 1.5 inches.
18. (Original) The optical tap of Claim 14 wherein the optical coupler comprises a quartz substrate.
19. (Original) The optical tap of Claim 14 wherein the optical coupler comprises a glass waveguide.
20. (Original) The optical tap of Claim 19 further comprising at least one channel for at least one of splitting and coupling an optical signal into a plurality of outputs.

21. (Previously Presented) A wavelength division multiplexing assembly, comprising:
- an optical connector having at least one output port;
  - an optical coupler integral with the optical connector;
  - a first optical fiber; and
  - a second optical fiber adjacent to and optically coupled with the first optical fiber, the optical coupling taking place without the use of refractive optical elements.
22. (Previously Presented) The wavelength division multiplexing assembly of Claim 21 further comprising:
- a ferrule mounted in the optical connector and adjacent to the optical coupler.
23. (Previously Presented) The wavelength division multiplexing assembly of Claim 21 further comprising:
- a patch panel having an adapter associated therewith, the patch panel further occupying a frame space; and
  - a bend radius associated with the optical tap, the bend radius remaining within the frame space when the optical tap is coupled to the adapter, the bend radius further not exceeding approximately 1.5 inches.
24. (Previously Presented) An optical power splitter, comprising:
- an optical connector having at least one output port;
  - an optical coupler integral with the optical connector;
  - a first optical fiber; and
  - a second optical fiber adjacent to and optically coupled with the first optical fiber, the optical coupling taking place without the use of refractive optical elements.
25. (Previously Presented) The optical power splitter of Claim 24 further comprising:
- a ferrule mounted in the optical connector and adjacent to the optical coupler.

26. (Previously Presented) The optical power splitter of Claim 24 further comprising:  
a bend radius; and  
an adapter installed in a patch panel having a frame space associated therewith and coupled to the optical power splitter in a manner wherein the bend radius fits within the frame space.
27. (Original) A method of fabricating an optical tap device, comprising the steps of:  
fusing an optical coupler into a connector ferrule;  
joining the ferrule to a fiber to result in a fiber coupler-connector assembly;  
curing the fiber coupler-connector assembly; and  
providing a protective shroud over the assembly.
28. (Original) An optical connector for coupling optical data signals, comprising:  
a connector and splitter portion;  
at least a pair of optical cables extending from the connector and splitter portion; and  
an optical connector at the distal end of each of the optical cables from the connector and splitter.
29. (Original) The optical connector of Claim 28 wherein the connector and splitter portion includes a coupler connector for joining at least one optical cable to a primary optical cable.
30. (Original) The optical connector of Claim 29 wherein the connector and splitter portion has a ferrule and outer connection for connecting to an adapter of an optical fiber cassette.
31. (Original) The optical connector of Claim 28 wherein a first optical cable carries data at 1550 nm wavelength and a second optical cable carries data at 1310 nm wavelength.